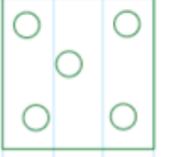
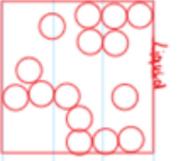
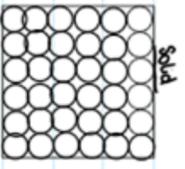


## Particles

All objects are made up of small particles that form their shape and volume.

They are commonly found in 3 states: **Solid** **Liquid** **gas**

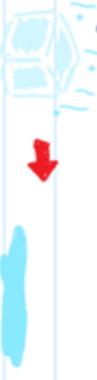


- Particles are close together
- Arranged in a regular way
- Fixed shape / volume
- As energy is low, can't vibrate.
- Particles are close together
- Arranged randomly
- Have enough space to move around, but not enough to be compressed.
- No fixed shape / volume
- Particles are far apart
- Arranged randomly
- Can move around each other
- Can be compressed
- No fixed shape / volume

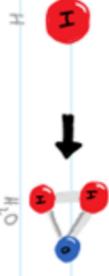
## Physical change vs. Chemical change

Physical change = a change in which no new substances are formed.

Only the form of the substance has changed, not the chemical composition.



Chemical change: Any change that involves the change of substance (chemical makeup)



## Diffusion

- Diffusion is the movement of particles from a high concentration to a low concentration.
- Lighter molecules will diffuse faster than heavier molecules.